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Cabela's MAPS LAKES

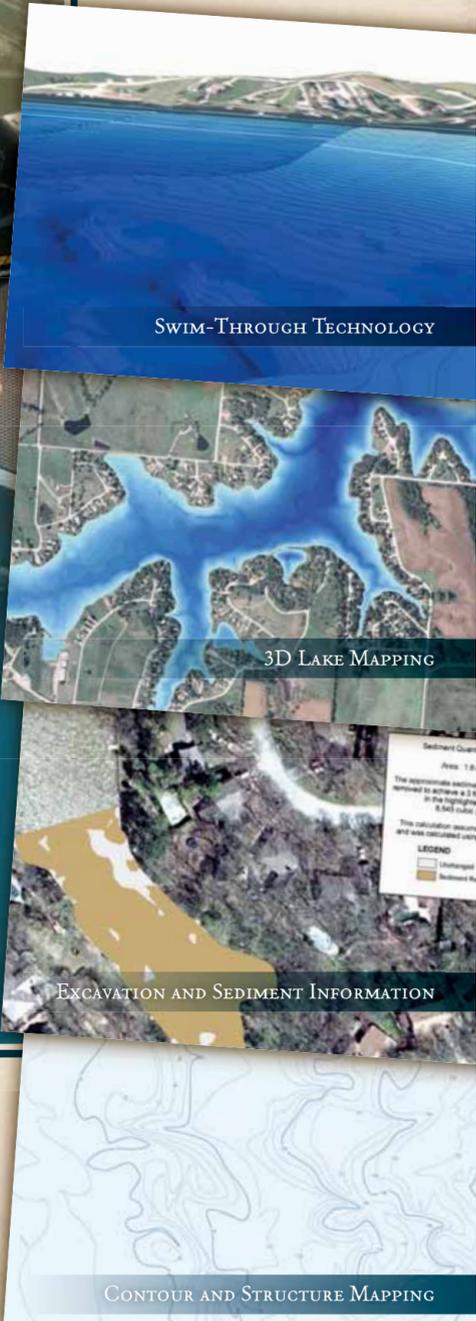
CABELA'S HAS TEAMED WITH AQUATIC SERVICE PROVIDERS NATIONWIDE TO OFFER PROFESSIONAL LAKE MAPPING.

Full enjoyment of your lake or pond requires an understanding of the aquatic resource. It is critical to know the exact acreage and depths of your lake to make the right management decisions - fish species selection, stocking densities, placement of structure, aquatic weed control, waterfowl habitat, etc. Our 3D model of your lake will provide the information you need to maximize your aquatic recreation.

GET YOUR LAKE MAPPED!



(757) 591-8780
Fax: (757) 873-4896
P.O. Box 236
Virginia Beach, VA 23458



WATER WATER EVERYWHERE

-Rudi Huber, Northeast Regional Sales Manager for AquaMaster Fountains and Aerators

The world is quickly accepting the fact that freshwater is a precious & limited resource. It has attracted the attention and concern of a growing number of people, from Associations to Government to Golf Courses - its protection has become a national priority.

In our environmentally conscious world, more & more aquatic managers are incorporating aeration equipment in conjunction with bioaugmentation products (bacteria, enzymes, etc...) more than ever, to keep their body of water healthy, with excellent results. Their goal is to increase *dissolved oxygen* (DO) levels & slowly decrease the use of chemicals, resulting in an aesthetically pleasing body of water with limited environmental impact.

A POND'S PURPOSE

Beauty, tranquility, a source of recreation - ponds & lakes are desired destinations, whether for a day at the beach or your home. A pond's primary purpose is storage & potential delivery of water. Of course we also have wetlands and natural springs present as well. In all cases, an

unsightly & foul-smelling body of water is an unpleasant problem which can be corrected.

The natural process of evolution for ponds is to eventually fill in & disappear. As a pond's water quality deteriorates, layers form. This process, called *thermal stratification* (temperature layering of the water body), must be interrupted or *eutrophication* (excess nutrients more prominent than DO) will result. This occurs when your pond is richer in dissolved nutrients than dissolved oxygen.

A typical two acre pond can lose up to one-third of its capacity to hold water within five years because of organic sludge buildup. Non-decomposed debris accumulates on the bottom as organic sludge and gradually decreases the depth of the pond.

HOW AERATION WORKS

Aeration is an effective, environmentally safe solution to the problems of algae build-up, aquatic weeds, bottom l

sludge and aquatic odors in ponds and aquatic odors in ponds and lakes.

Aeration has become the preferred method of water quality control because it effectively attacks the causes. Other methods such as lake dyes and algacide treat the symptoms of poor water quality - algae, unpleasant odors, aquatic weeds, even fish kills, but fail to manage the root of the problem - poor water quality.

If the key ingredient, air, in the form of DO, is not dissolved & dispersed by natural wind & wave action, then it will need to be re-introduced into the aquatic ecosystem by some mechanical process. AquaMaster manufactures a full line of fountains and aerators just for this propose.



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Aquatics Updates

Virginia Lake Management Company

Volume 1, Issue 3

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Virginia Lake Management partners with...



Virginia Lake Management Company is proud to announce it has been selected by Cabela's, the World's Foremost Outfitter, as the exclusive Lake Mapping Partner of Cabela's Trophy Properties in Virginia.

Cabela's Lake Mapping Partners help pond and lake owners understand and maximize their aquatic resources by providing detailed contour, depth, and 3D maps of their water bodies. Recreational property owners, lake associations, golf courses, marinas, developers, governmental organizations, and fishing clubs are some of the customers who utilize lake mapping services. "Cabela's Trophy Properties", as Kevin Tucker explained, "is a network of experts who help those who buy, sell, manage, develop, lease, and own recreational properties across North America, and around the globe".

Full enjoyment of your lake or pond requires an understanding of the resource. It is critical to know the exact acreage and depths to make the right management decisions. An accurate lake map provides the information needed to maximize the aquatic resource. Uses for lake maps include boating and fishing, sedimentation monitoring, aquatic weed control, fisheries management, habitat development, land use planning, construction and excavation, and renovation.

Virginia Lake Management Company has been helping people who have owned or

managed recreational properties since 1998 and now we will be able to combine the benefit of Cabela's outdoor expertise with the experience and knowledge that Virginia Lake Management brings to all of its customers.

Cabela's Trophy Properties is excited to have Virginia Lake Management Company as one of their lake mapping partners. "Kevin Tucker's enthusiasm is contagious, and he loves helping people enjoy their aquatic resources. We look forward to seeing him do great things in Virginia" stated Steve Bartosh, Senior Consultant for Cabela's Trophy Properties.

The firm invites you to visit the Cabela's Trophy Properties website at www.CabelasTrophyProperties.com.

If you are a lake or pond owner or manager and want to know about the services available to you through this program you can call Kevin Tucker at (757) 591-8780, toll free at (866) 697-2584 or email him at ktucker@vlmc.net.

1. "About Cabela's Trophy Properties LLC: Cabela's Trophy Properties LLC, a wholly owned subsidiary of Cabela's Corp. (NYSE CAB), is a global network of experts who serve the recreational industry. For more information please call 1.800.535.6007 or visit www.CabelasTrophyProperties.com.

Inside this issue:

Don't "Fall" Down -Randy Bolin, VLMC	2
Using Biologicals to Control Nutrients in Your Ponds. -Kyle Finerfrock, VLMC	2
SePRO Corporation Introduces Galleon [®] SC Aquatic Herbicide -Shaun Hyde, SePRO	3
Canada Geese- Dealing with these Nuisance Birds -David Ellison, VLMC	3
WATER WATER EVERYWHERE -Rudi Huber, AquaMaster	4



Don't "Fall" Down

—Randy Bolin

Property Managers and homeowners don't "Fall" down on your responsibilities to minimize nutrient levels and pollution in your ponds this Fall, because it will impact the health and water quality this Spring.

With Autumn upon us, falling leaves and grass fertilizers create excessive nutrient levels that lay dormant through the Winter. Excessive nutrients accumulating in lakes and ponds during the winter months leads to out of control algae blooms in the Spring. Because of this, it is critical that a minimal amount of leaves, grass, and fertilizer end up in the permanent pool of your retention ponds.

Well-managed stormwater retention ponds can be effective in collecting non-point source pollution from stormwater runoff. However, some retention ponds cause homeowner complaints about fish kills and algae blooms. These problems associated with ponds may be due to homeowner activities. To ensure minimal amounts of pollutants enter resi-



Algae Bloom caused by excessive nutrients in the pond.



Pond Bacteria under magnification

dential ponds, cultural practices need to be evaluated. In order for property managers and homeowners to achieve a better understanding of proven techniques that will significantly improve water quality, we would suggest learning more about the following:

Aquascaping is the practice of using aquatic and wetland plants to landscape in and around the water. Although the main purpose is to beautify, aquascaping also aids in pollutant filtration, controls erosion of the pond banks, attracts wildlife and increases much-needed wildlife habitat in urban settings, and helps control invasive non-native plants.

Vegetative Filter Strips are areas with dense vegetation (usually grass) through which runoff must flow before entering the pond. Vegetative filter strips can remove pesticides, nutrients, and sediment from flowing water.

Using Biologicals to Control Nutrients in Your Ponds.

—Kyle Finerfrock

Your pond is a dynamic cycle of biological processes working together to maintain a healthy ecological state of balance. The cultural effects of people can often throw off this balance, which can create problems in your pond. The inflow of organic waste is most often the reason for problems in our ponds today. Organic waste can include leaf litter, grass clippings, animal waste, and fertilizers, which when broken down, can create excessive nutrient levels in nearby ponds. Ponds with high nutrient levels often have problems with algae blooms and invasive aquatic weeds.

A very effective way to deal with organic waste and high nutrient levels is the use of additional beneficial pond bacteria also known as biologicals. These strains of bacteria are already naturally occur-

ing in the pond and by adding more to the pond you can speed up the process of breaking down the organic waste. This accelerated process of breaking down organics also helps to convert the nutrients into unusable forms before an algae bloom can occur. Biologicals can also improve water clarity, control foul odors, and improve the overall look of the pond. These biologicals can come in many different varieties and can be targeted to specific problems in your ponds.



Virginia Lake Management Company already provides many of its customers with biological augmentation as part of its comprehensive pond management strategy. For those pond owners who have not chosen to implement this proven technique for water quality improvement, we would highly recommend that you consider doing so in the future. To learn more about these products, and find out which products might be best for your pond, please consult one of our lake management specialists

It is very important that we control nutrient and pollution levels in our ponds, making them more visually appealing while maintaining their utilitarian functionality.

SePRO Corporation Introduces Galleon* SC Aquatic Herbicide

—Shaun Hyde



A new tool for the selective control of emergent, floating and submersed aquatic weeds like hydrilla, Eurasian watermilfoil, water hyacinth, water lettuce, salvinia and duckweed, has received its US EPA registration on July 17, 2007. SePRO began extensive evaluations of this reduced risk aquatic herbicide in 2001 and initiated the required regulatory studies in 2004. SePRO has now begun the process of seeking individual state registrations with South Carolina, North Carolina, and Virginia registration already secured. Galleon SC is an excellent tool for management of freshwater aquatic vegetation in: ponds, lakes reservoirs, marshes, wetlands, bayous, drainage ditches, non-irrigation canals and other quiescent bodies of water; shoreline and riparian areas for the control of floating and emergent

plant species; and also for the dewatered areas of quiescent bodies of water. Galleon SC is the first herbicide in its class (ALS-inhibitor) to receive a nationwide EPA registration for submersed weed control. Galleon SC's hydrilla killing activity is similar to that of the industry leading Sonar* brand. Galleon SC is slow acting and selective to the targeted invasive species, providing negligible risks to many non-target native species. Galleon SC is expected to become an integral part of herbicide rotation programs for hydrilla management. Research with Galleon SC was conducted by SePRO at its own Research and Technology Campus (SRTC) in Whitakers, NC and in various field sites across the country, as well as by cooperators like the USACE ERDC Environmental Laboratory, University of Florida, Purdue University, North Carolina State University, Mississippi State University and Washington State University. This extensive field and laboratory research



Canada Geese- Dealing with these Nuisance Birds

—David Ellison

Canada geese are often thought of as migratory birds. Unfortunately, many of the geese are resident birds that do not migrate and are often a nuisance to homeowners and businesses. The birds find ponds to be desirable habitats because the surrounding grass is usually well maintained and the water provides a safe area away from predators.

Early winter is a good time to address a goose problem. Geese start mating in late winter/early spring and will not leave that area after establishing a nesting site. By establishing a management plan in early winter, the geese can be prevented from mating and nesting around your pond. We as pond managers can apply a product to the turf that makes the grass unappealing for the geese to eat. Early planning to establish a management plan can go far in limiting your goose problems throughout the year.

has established an excellent understanding of efficacy on a wide range of target and non-target species when using Galleon SC. The use of this product has demonstrated fairly specific efficacy on two troublesome invasive plants, hydrilla and water hyacinth, when used as an in-water application. In addition, Galleon SC is effective on multiple nuisance species of floating leaf plants when sprayed on the leaf surface. Galleon SC is the industry's newest advancement in aquatic plant management, and this new chemistry is showing excellent promise when used alone or in combination with other aquatic plant management tools.

*Trademarks of SePRO Corporation.



Cabela's MAKES MAPS

CABELA'S PROFESSIONAL GEOGRAPHERS OFFER A VARIETY OF SERVICES AND PRODUCTS:

- High resolution color aerial maps with ownership boundaries, including wall map printing
- Location maps with towns, streets, streams, and road names
- Virtual 3D fly-overs of rural and urban areas, as well as swim-through tours of lakes
- On-site GPS mapping and lake mapping (bathymetric) services
- Measuring and layout for habitat design and watershed management

ORDER YOUR MAPS NOW!



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